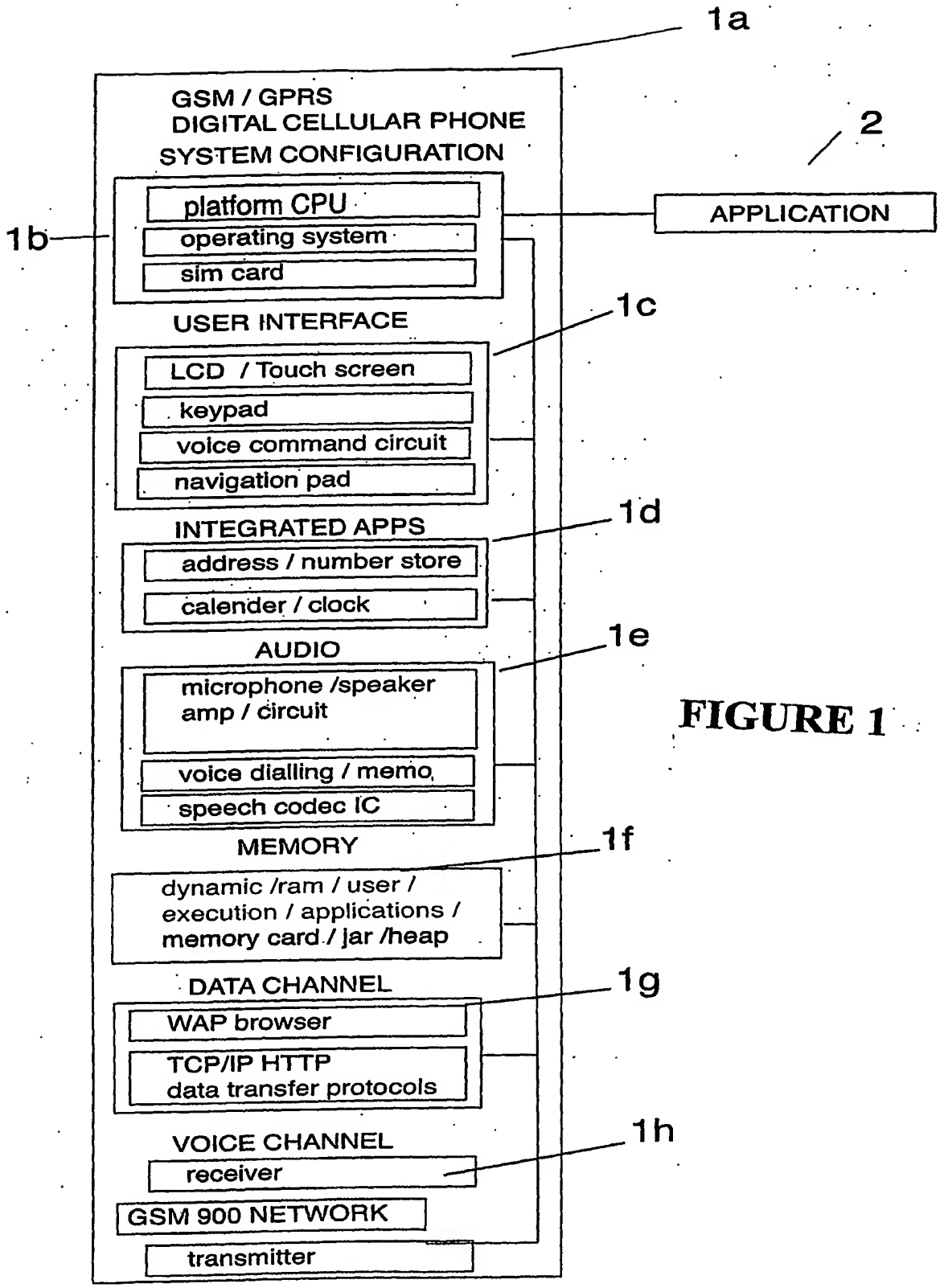

1a
GSM / GPRS
DIGITAL CELLULAR PHONE
SYSTEM CONFIGURATION
2
APPLICATION
1b
platform CPU
operating system
sim card
USER INTERFACE
1c
LCD / Touch screen
keypad
voice command circuit
navigation pad
INTEGRATED APPS
1d
address / number store
calender / clock
AUDIO
1e
microphone /speaker
amp / circuit
voice dialling / memo
speech codec IC
MEMORY
1f
dynamic /ram / user /
execution / applications /
memory card / jar /heap
DATA CHANNEL
1g
WAP browser
TCP/IP HTTP
data transfer protocols
VOICE CHANNEL
1h
receiver
GSM 900 NETWORK
transmitter

FIGURE 1

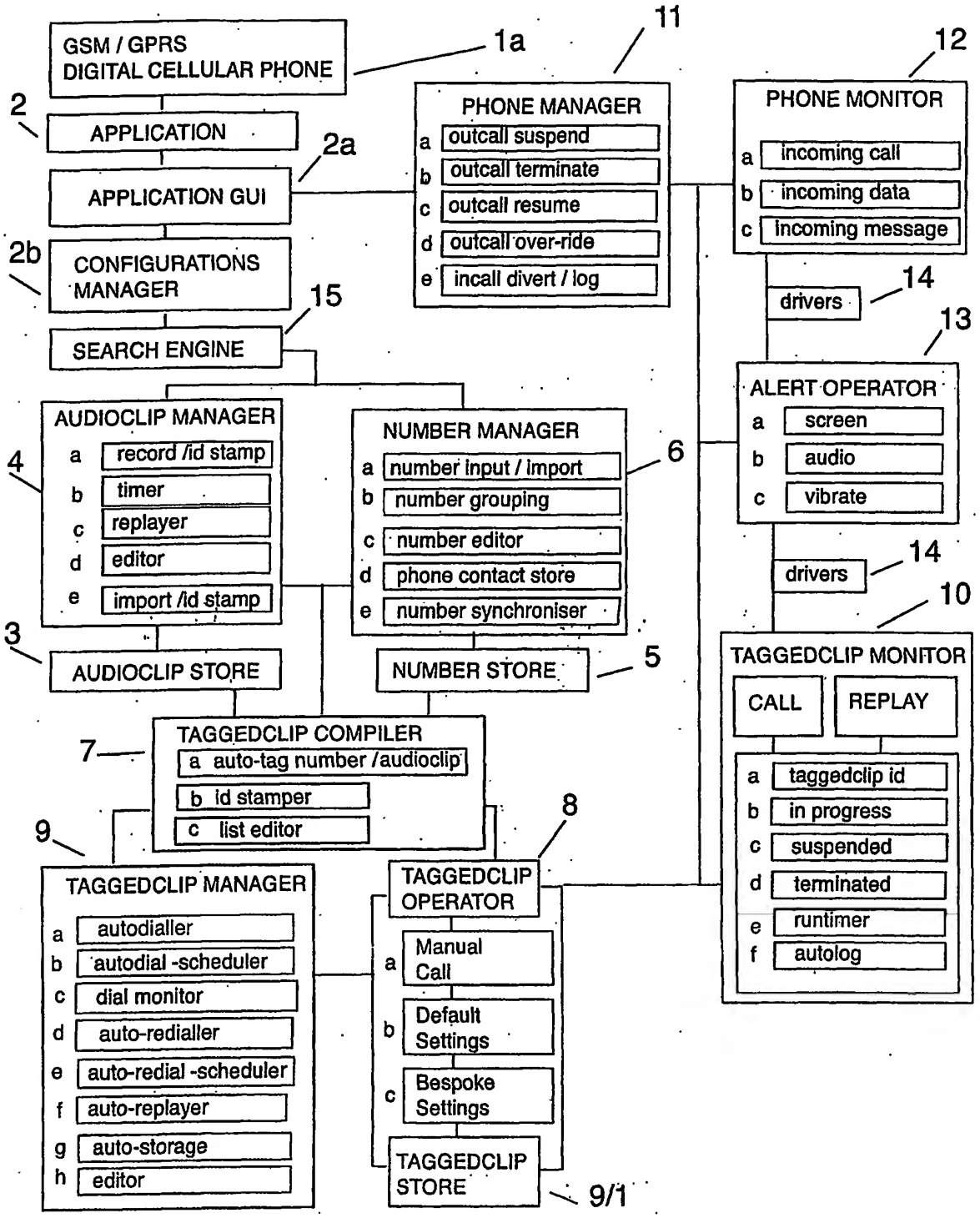

GSM / GPRS DIGITAL CELLULAR PHONE
1a
11
12
2
APPLICATION
2a
APPLICATION GUI
2b
CONFIGURATIONS MANAGER
15
SEARCH ENGINE
PHONE MANAGER
a outcall suspend
b outcall terminate
c outcall resume
d outcall over-ride
e incall divert / log
PHONE MONITOR
a incoming call
b incoming data
c incoming message
drivers
14
13
ALERT OPERATOR
a screen
b audio
c vibrate
drivers
14
10
AUDIOCLIP MANAGER
4
a record /id stamp
b timer
c replayer
d editor
e import /id stamp
NUMBER MANAGER
6
a number input / import
b number grouping
c number editor
d phone contact store
e number synchroniser
3
AUDIOCLIP STORE
NUMBER STORE
5
TAGGEDCLIP MONITOR
CALL
REPLAY
a taggedclip id
b in progress
c suspended
d terminated
e runtimer
f autolog
TAGGEDCLIP COMPILER
7
a auto-tag number /audioclip
b id stamper
c list editor
9
8
TAGGEDCLIP MANAGER
a autodialler
b autodial -scheduler
c dial monitor
d auto-redialler
e auto-redial -scheduler
f auto-replayer
g auto-storage
h editor
TAGGEDCLIP OPERATOR
a Manual Call
b Default Settings
c Bespoke Settings
TAGGEDCLIP STORE
9/1

FIGURE 2

FIGURE 3

CallClip1
- AudioClips
  - AudioClip1
    - HappyBirthday.wav
    - LateMessage.wav
- Audio Files
  - Apologize.wav

- Number Entries
  - NumberEntry8 (11111111)
  - NumberEntry3 (222222222)

- NumberClips
  - NumberClip6
    - Miss. Maria (33333333)
    - Mr. Eddie O'Connor (44444444)

- New Numbers
  - 55555555555
  - 66666666666

CallClipMaster

CallClipId	CallClipName
1	CallClip1

CallClipDetails

CallClipId	Type	Value
1	N	55555555555
1	N	66666666666
1	NE	8
1	NE	3
1	NC	6
1	AC	1
1	AF	Apologize.wav

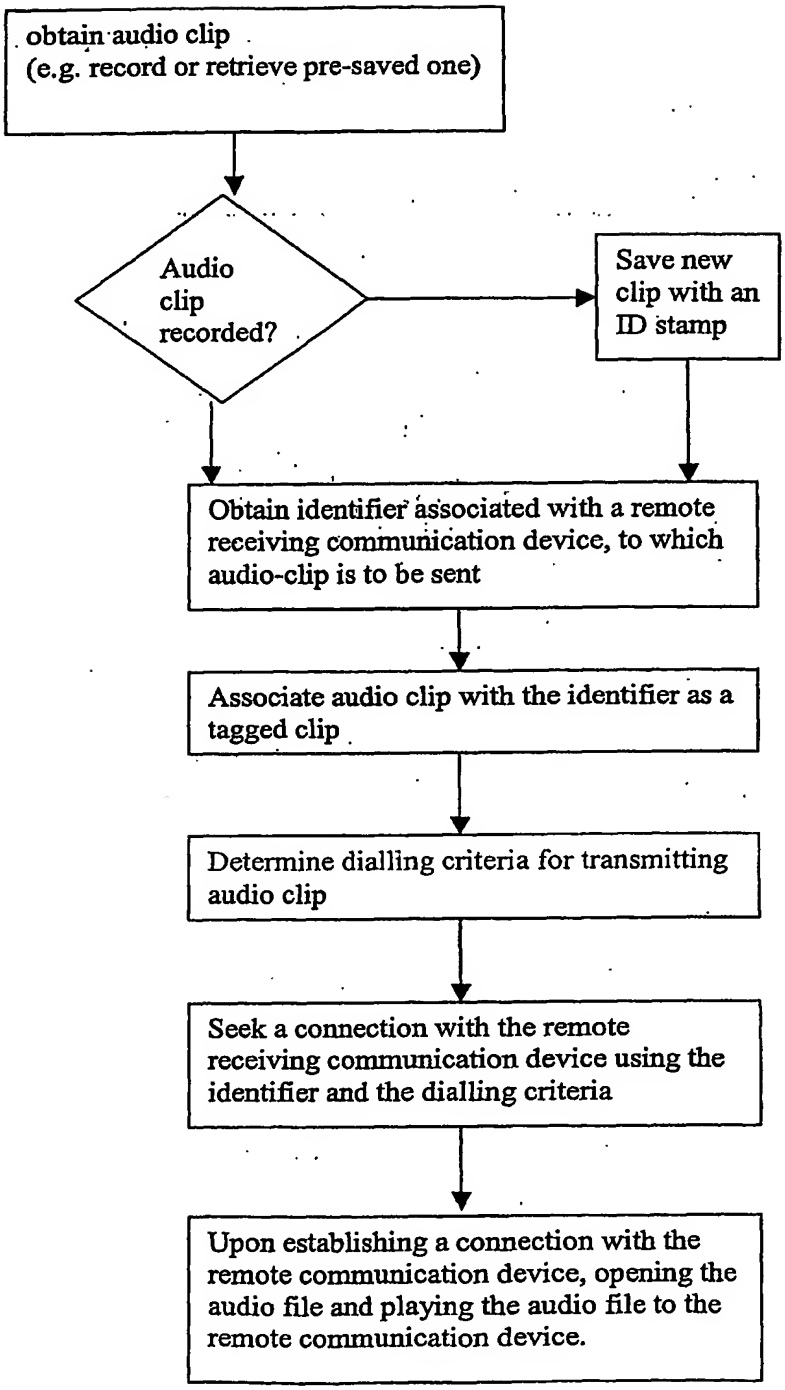
ScheduleMaster

ScheduleId	Redials	Rings	Status	Priority
1	4	7	Scheduled	Low

ScheduleRetries

ScheduleId	Date_Time
1	07-Aug-2003 09:30 AM
1	07-Aug-2003 01:00 PM

FIGURE 4


obtain audio clip
(e.g. record or retrieve pre-saved one)
Audio clip recorded?
Save new clip with an ID stamp
Obtain identifier associated with a remote receiving communication device, to which audio-clip is to be sent
Associate audio clip with the identifier as a tagged clip
Determine dialling criteria for transmitting audio clip
Seek a connection with the remote receiving communication device using the identifier and the dialling criteria
Upon establishing a connection with the remote communication device, opening the audio file and playing the audio file to the remote communication device.

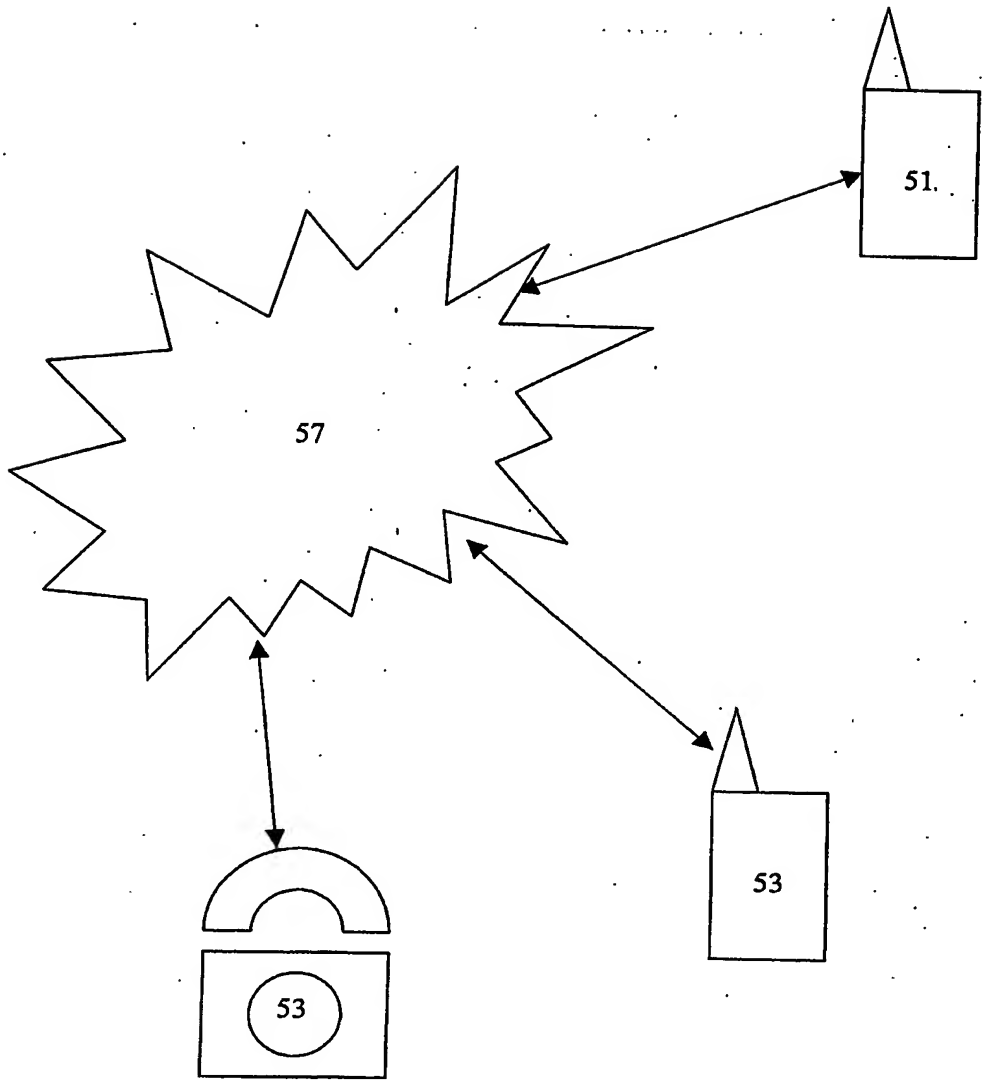



FIGURE 5